

WHAT IS CLAIMED IS:

1. A method of releasing a protein of interest from host cells comprising contacting the cells with a reducing agent and a detergent, wherein the detergent is an
5 amphipathic charged amine or an amphipathic charged amine oxide.

2. The method of claim 1, wherein the detergent is selected from the group consisting of: tributylphosphate, dimethyldecylamine, dimethyltridecylamine,
10 dimethylundecylamine, dimethyldidecylamine, dimethyltetradecylamine, dimethylhexadecylamine, dimethyldecylamineoxide, dimethylundecylamineoxide, dimethyldidecylamineoxide, dimethyltetradecylamineoxide and dimethyltridecylamineoxide.

15 3. The method of claim 1, wherein the detergent is not dimethyltridecylamine.

20 4. The method of claim 1, further comprising the step of adding glycerol to the suspended host cells.

5. The method of claim 4, wherein the detergent comprises a final concentration of between 0.01 to 10 percent.

25 6. The method of claim 4, wherein the glycerol comprises a final concentration of between 0.6 to 15

percent.

7. The method of claim 5, wherein the glycerol comprises a final concentration of between 0.6 to 6 percent.

8. The method of claim 1, wherein the reducing agent is selected from the group consisting of Dithiothreitol (DTT); Dithioerythritol (DTE); Cysteine (Cys) and Tris 2-carboxyethylphosphine (TCEP).

9. The method of claim 8, wherein the reducing agent is at a concentration of from 0.1 mM to 100 mM.

10. The method of claim 1, wherein the host cells are *Pichia pastoris* cells.

11 ~~12~~. The method of claim 1, further comprising the step of incubating the cell and detergent and reducing agent mixture from 90 minutes to 24 hours.

12 ~~13~~. The method of claim 12, wherein the incubation is from 8 hours to 24 hours.

13 ~~14~~. The method of claim 1, further comprising the step of incubating the cell and detergent and reducing agent mixture at a temperature of between about 3°C and about 10°C.